State of Utah

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Department of
Environmental Quality

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DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0100080026-09

March 11, 2009

Doug Jones
Nucor Steel
PO Box 100
Plymouth, UT 84330

Dear Mr. Jones:

Re: Intent to Approve: Modifying the Nucor Steel Approval Order DAQE-AN0100080024-07 to Include the Western Metals Recycling Operation, Box Elder County; CDS A; NSPS (Part 60), PSD, Title V (Part 70)
Project Number: N010008-0026

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Nando Meli Jr., who may be reached at (801) 536-4052.

Sincerely,

Ty L Howard, Manager
New Source Review Section

TLH:NM:kw
cc: Mike Owens
Bear River Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

INTENT TO APPROVE: Modifying the Nucor Steel Approval Order DAQE-AN0100080024-07 to Include the Western Metals Recycling Operation

Prepared By: Nando Meli Jr., Engineer
Phone: (801) 536-4052
Email: nmeli@utah.gov

INTENT TO APPROVE NUMBER

DAQE-IN0100080026-09

Date: March 11, 2009

Nucor Steel

Source Contact:
Mr. Doug Jones
Phone: (435) 458-2415

Ty L Howard, Manager
New Source Review Section
Utah Division of Air Quality

ABSTRACT

Nucor Steel has purchased the Western Metals Recycling (WMR) company. WMR is located adjacent to Nucor Steel and is now being included in Nucor Steel's Plymouth mill plant Approval Order. The Nucor Steel Plymouth mill plant is an Electric Arc Furnace (EAF) shop, commonly known as a minimill.

Western Metals Recycling, LLC is a scrap metal processing facility that recycles scrap steel and nonferrous metals. Scrap iron is purchased and processed with a combination of mobile shears, shredder and/or torch cutting material to size. Processed ferrous metals are sold on the open market to Nucor Steel's Plymouth mill as well as other electric arc furnaces. Nonferrous metal is purchased and extracted from shredded material and sold to aluminum secondary smelters.

Nucor Steel is subject to 40 CFR Subpart AAa, Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983. Nucor Steel is a Prevention of Significant Deterioration major source for NO_x, SO_2 and CO.

The PM_{10} emissions, in tons per year (tpy) from the WMR, are estimated to be 4.32. The potential to emit emissions at the combined site, in tons per year, are as follows: PM_{10} = 136.34, NO_x = 418.21, SO_2 = 328.75, CO = 2,917.86, VOC = 172.98 and HAPs = 13.02.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Box Elder News & Journal on March 18, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Nucor Steel
PO Box 100
Plymouth, UT 84330

Permitted Location:

Nucor Steel
West Nucor Rd
PO Box 100
Plymouth, UT 84330

UTM coordinates:401000 m Easting, 4637500 m Northing
SIC code:3312 (Steel Works, Blast Furnaces (Including Coke Ovens), & Rolling Mills)

Section I: GENERAL PROVISIONS

I.1 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]

I.2 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.3 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]

I.4 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

I.5 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

I.7 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

II.A.1 **NUCOR STEEL EQUIPMENT**
The equipment listed below is located at the Nucor Steel plant site.

II.A.2 **Two carbon electrode furnaces**
Furnaces equipped with burners and lances, lime/carbon injection, and ancillary equipment (ladles, cranes, etc.) evacuated to a fabric filter baghouse.

II.A.3 The furnaces may be modified by installation of eccentric bottom tap(s); sidewall and door oxygen lance burner technologies and/or door lancing technologies; alterations in furnace movements and components, computer control equipment, refractories, and alterations to raw material feeds such as alloy addition, and support equipment modifications such as charge bucket, ladle, crane, and building modifications, to increase production rates, not to exceed AO production limits and emission limits

II.A.4 **Storage silo**
Silo for material captured by the EAF baghouse

II.A.5 **Skull lancing**

II.A.6 **Laddle preheats**

II.A.7 **Tundish preheats**

II.A.8 **Caster operations**
Ladle stirring station(s), alloy addition, billet casting and billet cutting

II.A.9 **Two lime/dolomite storage silos**
Silos are equipped with a fabric filter baghouse(s)

II.A.10 **Two carbon storage silos**
Two storage silos for carbon, each equipped with a baghouse filter

II.A.11 **Scrap handling operations**

II.A.12 **Billet reheat furnace #1**
Furnace is natural gas/propane fired with low NOX burner

II.A.13 **Billet reheat furnace #2**
Furnace is natural gas/propane fired with low NOX burner

II.A.14 **Water desalination plant**

II.A.15 **Associated mobile equipment**

II.A.16 **Miscellaneous parts washers**

II.A.17 **Sandblast station(s)**

II.A.18 **Five evaporative cooling towers**

II.A.19 **Lime, fluorspar, and alloy handling operations**

II.A.20 **Miscellaneous gas fired equipment**
Miscellaneous plant wide natural gas/ propane cutting torches and burners that are rated less than 1,000,000 BTU/hour each

II.A.21 **Hot steel rolling operations**

II.A.22 **Fuel storage tanks**
Diesel and gasoline fuel storage tanks less than 10,500 gallons

II.A.23 **Generators and pumps**
Miscellaneous diesel, natural gas and propane fueled emergency generators and pumps.

II.A.24 **Di-ethylene glycol storage tank**

II.A.25 **Scrap steel stockpiles**
This equipment is listed for informational purposes only

II.A.26 **WESTERN METALS RECYCLING EQUIPMENT**
The equipment below is located at the Western Metals Recycling site

II.A.27 **Shredder**
Mill box, magnetic separation, and conveyor transfers

II.A.28 **Eddy current**
Trommel and conveyor transfers

II.A.29 **Finder separation system**

II.A.30 **Natural Gas Equipment**
Torch cutting

II.A.31 **Landfill activities**
This is listed for informational purposes only

II.B Requirements and Limitations

II.B.1 **Limitations and Test Procedures**

II.B.1.a Emissions to the atmosphere at all times from the indicated emission point(s) shall not exceed the following rates and concentrations:

Source: EAF Baghouse

Pollutant	lb/hr	grains/dscf (68ºF, 29.92 in Hg)	tons/year
TSP	25.07	0.0030	
PM_{10}	20.06	0.0024	
SO_2 (3-hr ave)	194.96		
SO_2 (24-hr ave)	137.07		
SO_2 (rolling 12-month total)			322
NO_x (rolling 12-month total)			245
CO (1-hr ave)	1,200		
CO (8-hr ave)	682.93		
CO (rolling 12-month total)			2,800
VOC	22.20		

Source: Reheat Furnace #1

Pollutant	lb/hr
NO_x	15.0

Source: Reheat Furnace #2

Pollutant	lb/hr
NO_x	8.0. [R307-401]

II.B.1.b Stack testing to show compliance with the emission limitations stated in the above condition shall be performed as specified below:

A.

Emissions Point	Pollutant	Test Frequency
EAF Baghouse		
	TSP	Every year
	PM_{10}	Every year
	SO_2	CEM
	NO_x	CEM
	CO	CEM
	VOC	Every 5 years
Reheat Furnace #1		
	NO_x	Every 3 years
Reheat Furnace #2		
	NO_x	Every 3 years

B. Testing Status

PM_{10} compliance may be demonstrated through TSP testing. If the TSP emissions are below the PM_{10} limit, then that will constitute compliance with the TSP limit. If the TSP emissions are not below the PM_{10} limit, testing will be required. If required, this test will be completed within 120 days of the yearly TSP test.

Continuous Emissions Monitoring System (CEM) compliance shall be demonstrated through use of a CEM as outlined in Condition #II.B.2.a below. The CEM that is used to determine compliance shall be operated according to the most recent Title V permit.

C. Notification

The Executive Secretary shall be notified at least 30 days prior to conducting any required emission testing. A source test protocol shall be submitted to DAQ when the testing notification is submitted to the Executive Secretary.

The source test protocol shall be approved by the Executive Secretary prior to performing the tests. The source test protocol shall outline the proposed test methodologies, stack to be tested, and procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary.

D. Sample Location

The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

E. Volumetric Flow Rate

40 CFR 60, Appendix A, Method 2 or other testing methods approved by the Executive Secretary. [R307-401]

F. TSP

40 CFR 60. Appendix A, Method 5D. The minimum sample time and sample volume shall be four hours and 160 dscfm.

G. PM_{10}

For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201, 201a, or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. All particulate captured shall be considered PM_{10}.

For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate, or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. The portion of the front half of the catch considered PM_{10} shall be based on information in Appendix B of the fifth edition of the EPA document, AP-42, or other data acceptable to the Executive Secretary.

The back half condensibles shall not be used for compliance demonstration but shall be used for inventory purposes.

H. Sulfur Dioxide (SO_2)

40 CFR 60, Appendix A, Method 6, 6A, 6B, 6C, or other testing methods approved by the Executive Secretary.

I. Nitrogen Oxides (NO_x)

40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D, 7E, or other testing methods approved by the Executive Secretary.

J. Volatile Organic Compounds (VOCs)

VOC emissions shall be determined by simultaneously using 40 CFR 60, Appendix A, Method 25A (total organic gaseous concentration) with two analyzers, with one analyzer configured to read only methane. The difference between the total organic detector and the methane detector shall constitute the VOC measurement.

K. Carbon Monoxide (CO)

40 CFR 60, Appendix A, Method 10, or other testing methods approved by the Executive Secretary.

L. Calculations

To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary, to give the results in the specified units of the emission limitation.

M. Existing Source Operation

For an existing source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three years. [R307-401]

II.B.1.c Visible emissions from the following emission points shall not exceed the following values:

A. Emissions from the shop and due solely to operations of any electric arc furnaces - 6%

B. Exhaust of the EAF baghouse - less than 3%

C. EAF dust handling equipment - less than 10%

D. Carbon storage silo bag house exhaust - 10%

E. Lime/dolomite storage silo exhaust - 10%

F. Unpaved haul roads and service roads - 20%

G. Paved haul roads and service roads - 10%

H. Additive (coke breeze, feldspar, alloys, lime, etc.) batching operations - 10%

I. Reheat Furnace #1 and #2 - 10%

J. Sandblasting as required in R307-206.

K. WMR site 20%

L. All other points 20%

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

In lieu of monitoring via visible emission observations for Reheat Furnace #1 and #2, fuel usage shall be monitored to demonstrate that only natural gas or propane is being used as fuel.

Results of monitoring for Reheat Furnace #1 and #2 shall be maintained in accordance with R307-415-6a(3)(b).

Monitoring:

(a) In lieu of monitoring via visible emission observations for the WMR site, WMR shall conduct a yearly 1-minute visible emissions test of each affected source in accordance with 40 CFR 60, Appendix A, Method 22. The test must be conducted while the affected source is in operation.
(b) If visible emissions are observed during any Method 22 test, WMR shall conduct a six minute test of opacity in accordance with 40 CFR 60, Appendix A, Method 9. The Method 9 test must begin within one hour of any observation of visible emissions.

Recordkeeping:

Records of visible emission tests performed and data required by 40 CFR 60, Appendix A, Method 22 and 9 shall be maintained in accordance with Condition I.4 of this AO. [R307-401]

II.B.1.d The oxy-fuel burners located in the slag doors and sidewalls of the EAF, and the door lances may be replaced with lance/injection burner technologies. [R307-401]

II.B.1.e A minimum of five fans shall be operating at all times on the EAF baghouse. [R307-401]

II.B.1.f Nucor Steel shall install, calibrate, and maintain one of the following systems to verify that emission control systems are operating within established parameters:

A. Fan ampere and damper setting system

This system shall provide records of fan operation and amperes with readings taken once per shift and provide a fan operation log that records excursion events such as fan shut downs and startups. Required fan amperes and damper positions shall be those established during an initial compliance test where compliance with emission (including opacity) limitations was demonstrated. The records shall be made available to the Executive Secretary upon request.

B. Continuous volumetric monitoring device

This system will provide a continuous record of airflow in all ducts evacuating the EAF and roof canopy. The monitoring devices may be installed in any location in the exhaust ducts such that reproducible flow rate monitoring will result. The flow rate monitoring device(s) shall have an accuracy of plus or minus 10% over its normal operating range and shall be calibrated according to manufacturers instructions. The Executive Secretary may require Nucor Steel to demonstrate the accuracy of the monitoring device(s) according to method 1 and 2, Appendix A, 40 CFR 60. Required airflows will be those established during an initial compliance test where compliance with emission (including opacity) limits was demonstrated. The records shall be made available to the Executive Secretary upon request.

C. Negative pressure monitoring system

This system will consist of a monitoring device that continuously records the negative pressure in each duct for all ducts used to evacuate emissions from the EAF(s). The pressure shall be recorded as 15-minute integrated averages. The monitoring devices shall be installed in any appropriate location in the ducts such that reproducible results are obtained and shall be upstream of any damper in the duct. The pressure-monitoring device shall have an accuracy of plus or minus five (5) mm of water gauge over its normal operating range and shall be calibrated according to the manufacturer's instructions.

Measurements of the minimum negative pressure recorded during the initial performance test of condition #10 above for each duct shall be the minimum allowed negative pressure during the charging, melting, and tapping stages for each furnace. Nucor Steel shall maintain a log of the negative pressures in integrated 15-minute averages of each furnace during all stages. The log shall be made available to the Executive Secretary or Executive Secretary's representative upon request.

Nucor Steel shall establish the parameters during the initial compliance test(s) and shall submit the parameters to the Executive Secretary for approval. Nucor shall operate the emission control systems within the approved parameters. [R307-401]

II.B.1.g Nucor Steel shall perform visible emission observations of emissions from the EAF baghouse with a certified observer. Observations shall be conducted at least once per day when at least one of the furnaces is operating in the melting/refining stage. These observations shall be taken in accordance with Method 9, and for at least three six-minute periods. Records of daily observations shall be maintained on site. [R307-401]

II.B.1.h The melt shop operation shall not exceed 8,200 hours of operation per rolling 12-month period. Compliance with the annual limitation shall be determined on a rolling 12-month total. By the twentieth day of each month, Nucor shall calculate a new 12-month total using data from the previous 12 months. Records of hours of operation shall be kept for all periods when the plant is in operation. The records shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.1.i Nucor Steel shall perform monthly operational status inspections of the equipment that is important to the performance of the EAF emissions total capture system. The inspections shall include all ducting, dampers, switches, etc. This inspection shall include observations of the physical appearance of the equipment (e.g. presence of holes in the ductwork or canopy, flow constrictions caused by dents or accumulation of dust in the ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed. Records of the results of the monthly inspections and maintenance/repairs performed shall be maintained. [R307-401]

II.B.1.j Emergency generators and pumps shall only be used during the periods when electric power from the public utilities is interrupted and/or during maintenance. Records documenting generator and/or pump usage shall be kept in a log and they shall show the date the generator and/or pump was used, the duration in hours that the generator and/or pump was used, and the reason for each generator and/or pump usage. [R307-401]

I.B.2 **Monitoring - Continous Emissions Monitoring**

II.B.2.a Nucor Steel shall install, calibrate, maintain, and operate a CEM system on EAF baghouse exhaust stacks. Nucor Steel shall record the output of the system, for measuring the NO_x emissions, SO_2 emissions, and CO emissions. The monitoring system shall comply with all applicable sections of R307-170 and 40 CFR 60, Appendix B.

Except for system breakdown, repairs, calibration checks, and zero and span adjustments required under paragraph (d) 40 CFR 60.13, Nucor shall continuously operate all required continuous monitoring systems and shall meet minimum frequency of operation requirements as outlined in 40 CFR 60.13 and Section R307-170. [R307-401]

II.B.3 **VOC Limitations**

II.B.3.a The emissions of VOC at the Nucor Steel mill plant from miscellaneous solvent, cleaners (excluding janitorial), and painting shall not exceed 6.75 tons 12-month period. The plant wide emissions of VOC from the steel mill plant shall be determined by maintaining a record of VOC potential contained in the materials used each month. [R307-401]

II.B.4 **Roads and Fugitive Dust**

II.B.4.a All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition. The opacity shall not exceed 20% during all times the areas are in use or unless it is below freezing. Records of water treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

A. Date

B. Number of treatments made, dilution ratio, and quantity

C. Rainfall received, if any, and approximate amount

D. Time of day treatments were made

Records of treatment shall be made available to the Executive Secretary upon request, and shall include a period of two years ending with the date of the request. [R307-401]

II.B.4.b The paved haul roads and operational areas shall be periodically swept or water-flushed-clean as conditions warrant or as determined necessary by the Executive Secretary. Records of cleaning paved roads shall be made available to the Executive Secretary or Executive Secretary's representative upon request. Records shall include a period of two years before the date of request. [R307-401]

II.B.4.c There shall be no active exterior coke breeze, feldspar, and slag stockpiles located at the Nucor Steel manufacturing site after January 1, 1998. Until such time all existing stockpiles of these materials will be used for depletion only, no new material will be added to the stockpiles. [R307-401]

II.B.4.d Water sprays shall be installed to ensure all conveyor transfer points and batching equipment drop points are adequately controlled for fugitive emissions:

An alternative to water sprays for items listed above may be to enclose the transfer/drop points. The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary. [R307-401]

II.B.5 **Fuels**

II.B.5.a Nucor Steel shall use only natural gas or propane as a fuel in the steel making processes and comfort heating. The plant-wide consumption of natural gas at the steel plant shall not exceed 2,340 x 10^6 scf per year and propane shall not exceed 2.8 x 10^6 gallons per year, not including fuel consumed by oxy-fuel burners for the two EAFs. Nucor shall install a meter or meters, which measure the amount of natural gas consumed by the EAF oxy-fuel burners. Nucor Steel shall install a meter, which measures the volume of propane-consumed plant wide. Compliance with the annual limitations shall be determined on a rolling 12-month total. Consumption of natural gas shall be determined by the last 12 vendor billing statements with the appropriate conversion of acf to scf, as recommended by the vendor, and subtracting from the statements the amount of fuel consumed by the EAF oxy-fuel burners. Consumption of propane shall be determined by records of propane consumed at the steel making plant, by Nucor's Steel meters. [R307-401]

II.B.5.b The plant wide consumption of diesel fuel by on-site equipment at the steel making plant, both mobile and stationary, shall not exceed 285,000 gallons per rolling 12-month period. Compliance with the annual limitation shall be determined on a rolling 12-month total. Consumption of diesel fuel shall be determined by the last 12 vendor billing statements. [R307-401]

II.B.5.c The sulfur content of any fuel oil or diesel burned shall not exceed 0.5 percent by weight. Nucor Steel has received approval of an alternative monitoring request. Records from the vendor which demonstrate that the diesel fuel purchased is of #2 grade or lighter demonstrate compliance with this limitation. [R307-401]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), AAa: EAF Argon: 02DcarbVsl 8/17/83

PERMIT HISTORY

The final AO will be based on the following documents:

Supersedes DAQE-AN0100080024-07 dated June 8, 2007

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds